CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

27th January 2015

Dear Sir,

Sub: Testing of Solid Block.

As requested, the required tests were carried out for the materials the samples supplied by you, for the work of **'Construction of library building at HMT layout 1st block in Ward no-09'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	27/01/2015
Technical Reference	IS: 2185(Part-I)-2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm^2)	Minimum Compressive Strength as per IS: 2185(Part-I)-2005 (Reaffirmed 2010)	
			Individual	Avg. of 8 samples
1	40x20x20	4.3	**Minimum Compressive Strength of Individual Units**	**Minimum Average Compressive Strength of Units**
2		4.4		
3		4.2	For Grade C (5.0)- 4.0 N/mm^2 For Grade C (4.0)- 3.2 N/mm^2	For Grade C (5.0)- 5.0 N/mm^2 For Grade C (4.0)- 4.0 N/mm^2
4		4.3		
5		4.4		
6		4.5		
7		4.2		
8		4.1		
Average Compressive strength (N/mm^2)		**4.3**		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	7.48	**7.42**	When three samples are tested the average water absorption shall not be more than 10% by mass
2		7.36		
3		7.41		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	1864.8	**1863.7**	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1863.5		
3		1862.9		

Remarks	Satisfies the Requirements.

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Lab Incharge
Civil Tech Labs

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

12th January 2015

Dear Sir,

Sub: Testing of Materials.

As requested, the required tests were carried out for the materials the samples supplied by you, for the work of **'Construction of library building at HMT layout 1st block in Ward no-09'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015
Specific Gravity	**2.66**
Water Absorption in %	**0.29**

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**98.3**	95-100	
20	**53.2**	30-70	
10	**24.1**	10-35	
4.75	**3.6**	0-5	

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015
Specific Gravity	**2.58**

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	**100**	100	100	100	100	II
	4.75	**98.3**	90-100	90-100	90-100	95-100	
	2.36	**83.4**	60-95	75-100	85-100	95-100	
	1.18	**75.1**	30-70	55-90	75-100	90-100	
	0.6	**43.4**	15-34	35-59	60-79	80-100	
	0.3	**24.1**	5-20	8-30	12-40	15-50	
	0.15	**8.5**	0-10	0-10	0-10	0-15	

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.6	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	416	415	Satisfactory
6	U T S (N/Sq.mm)	520	485	Satisfactory

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.8	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

Note:

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.1	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	422	415	Satisfactory
6	U T S (N/Sq.mm)	528	485	Satisfactory

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 16 mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of testing	12/01/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.3	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	532	485	Satisfactory

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 20 mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	20	20	Satisfactory
2	Wt/m Length (Kg/m)	2.48	2.47	Satisfactory
3	Bend & RebendTest	Pass	Should not CrackorFracture	Satisfactory
4	Elongation (%)	15.5	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	429	415	Satisfactory
6	U T S (N/Sq.mm)	536	485	Satisfactory

Note:

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 25 mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of the Agency	Sri. T. Gopinathareddy
Date of Testing	12/01/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	25	25	Satisfactory
2	Wt/m Length (Kg/m)	3.86	3.85	Satisfactory
3	Bend & RebendTest	Pass	Should not CrackorFracture	Satisfactory
4	Elongation (%)	15.8	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	430	415	Satisfactory
6	U T S (N/Sq.mm)	538	485	Satisfactory

Note:

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

13th February 2015

Dear Sir,

Sub: Construction of library building at HMT layout 1st block in Ward no-09.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of Agency	Sri. T. Gopinathareddy
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Footing)	16/01/2015	13/02/2015	28	8.18	480	**21.33**	**21.26**
2					8.19	485	**21.56**	
3					8.17	470	**20.89**	

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Lab Incharge
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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

21st February 2015

Dear Sir,

Sub: Construction of library building at HMT layout 1st block in Ward no-09.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Construction of library building at HMT layout 1st block in Ward no-09.
Name of Agency	Sri. T. Gopinathareddy
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Plinth)	24/01/2015	21/02/2015	28	8.15	470	**20.89**	**21.19**
2					8.16	475	**21.11**	
3					8.17	485	**21.56**	

Note:

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Lab Incharge
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